OBJWS Behavior of Gases

- 1. What happens when gas pressure exceed the strength of the container it's in?
- 2. If the number of particles in a container decrease by one half, then the pressure
- 3. Gases cool when ______ and heat when they are _____.
- 4. If the temperature increases, then the pressure in a container ______. (Kinetic energy also ______.)
- 5. What is the difference between Real vs. Ideal Gases?
- 6. When warming occurs, dry ice changes. This is an example of what physical process?
- 7. What is Dalton's law of partial pressure?
- 8. Why must high altitude pilots have separate oxygen supply available?
- 9. State Boyle's Law.
- 10. What kind of relationship do the variables in Boyle's law have?
- 11. How many atm will you be at if you scuba to 40 meters below sea level?
- 12. Why can't you breathe normally below sea level? What happens physiologically to your body?
- 13. What happens to a diver if he/she returns to the surface to quickly?
- 14. State Charles' Law. What's happening with the pressure?
- 15. What kind of relationship do the variables in Charles' Law have?
- 16. Why would we want to liquefy oxygen, nitrogen, or argon?
- 17. State the Combine Gas Law.
- 18. A container of compressed nitrogen has a volume of 24.6 L and 80 atm pressure at 25 degrees Celsius. When the container cools, it is cooled to 20 atm. What is the new T of the gas?
- 19. State the Ideal Gas Law. What 2 things makes this law unique.
- 20. A tunnel contains 200 L of ethane (C_2H_4) gas at pressure of 0.70 atm and a temperature of 40 degrees Celsius. How many moles of ethane does this gas deposit contain?